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Procedia CIRP 10 (2013) 1

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## 12th CIRP Conference on Computer Aided Tolerancing

## Preface

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The CIRP Conference on Computer Aided Tolerancing CAT is initiated and scientifically assisted every two years by CIRP Scientific Technical Committees: Design STC Dn and Precision Engineering and Metrology STC P. The 12th CIRP CAT Conference in Huddersfield/United Kingdom 2012 is a successor to the earlier eleven Conferences held in Israel 1989, USA 1991, France 1993, Japan 1995, Canada 1997, Netherlands 1999, France 2001, USA 2003, USA 2005, Germany 2007 and France 2009. Represented are many different cultures and backgrounds mirroring the wide relevance of the basic themes of Geometrical Products Design and their Metrology presented at the conference. This conference was held on 18 -19 April 2012, and was organised by the UK's EPSRC National Centre for Innovative Manufacturing in Advanced Metrology and the Centre for Precision Technologies, at the University of Huddersfield, one of the well-established scientific centres of Europe for advanced metrology.

Many high quality papers were presented covering a wide range of subjects ranging from specification and standardisation, tolerancing analysis and synthesis in design/manufacturing, process/product, life cycle management to quality control, verification and metrology. Four keynote papers were also presented by international experts renowned for attracting new engineers and scientists into the theory and practice of computing aided tolerancing.

The CIRP CAT conference aims to provide an international forum for academics, professionals and

engineers from different disciplines to meet and exchange their ideas, results and latest research, as well as users describing their practical experiences and giving new challenges for the development of product design and metrology including standardization. The organisers have ensured that there is a balance between academia and industry to disseminate modern advances to students and researchers as well as presenting the implementation of new ideas into industry. Meeting together on a friendly and informal basis provides the atmosphere for achieving these goals.

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